Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of the Claims:

All currently pending claims are listed below for the convenience of the Examiner.

Please amend claims 1, 6, 9, 11, and 14, as follows:

1. *(Currently amended)* A method for image processing comprising:

obtaining stereo data based on input image sequences, including obtaining stereo data based on input image sequences of varying facial expressions;

building a three-dimensional (3D) model using the obtained stereo data; and

tracking a monocular image sequence using the built 3D model.

2. (Canceled) ~~The method of claim 1, wherein the obtaining of the stereo data includes obtaining stereo data based on input image sequences of varying facial expressions.~~

3. (Original) The method of claim 1, wherein the building of the 3D model includes processing the obtained stereo data using a Principal Component Analysis (PCA).

4. (Original) The method of claim 3, wherein the processed stereo data using PCA allows the 3D model to approximate a generic shape as a linear combination of shape basis vectors.

5.   (Original) The method of claim 1, wherein the tracking of the monocular image sequence

includes tracking of a monocular image sequence of facial deformations using the built 3D

model.

6.   (Currently amended) A computing system comprising:

        an input unit to obtain stereo data based on input image sequences of varying facial

expressions; and

        a processing unit to build a three-dimensional (3D) model using the obtained stereo data

and to track a monocular image sequence using the built 3D model.

7.   (Canceled) ~~The computing system of claim 6, wherein the input unit is to obtain the~~

~~stereo data based on input image sequences of varying facial expressions.~~

8.   (Original) The computing system of claim 6, wherein the processor is to process the

obtained stereo data using a Principal Component Analysis (PCA).

9.   (Currently amended) The computing system of claim 8~~6~~, wherein the processor is to

approximate a generic shape as a linear combination of shape base vectors based on the PCA

processed stereo data.

10.   (Original) The computing system of claim 6, wherein the processor is to track a

monocular image sequence of facial deformations using the built 3D model.

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11.   (Currently amended) A machine-readable medium providing instructions, which if

executed by a processor, causes the processor to perform an operation comprising:

obtaining stereo data based on input image sequences, including obtaining stereo data

based on input image sequences of varying facial expressions;

building a three-dimensional (3D) model using the obtained stereo data; and

tracking a monocular image sequence using the built 3D model.

12.   (Canceled) ~~The machine-readable medium of claim 11, further providing instructions,~~

~~which if executed by the processor, causes the processor to perform an operation comprising:~~

~~obtaining stereo data based on input image sequences of varying facial expressions.~~

13.   The machine-readable medium of claim 11, further providing instructions, which if

executed by the processor, causes the processor to perform an operation comprising:

processing the obtained stereo data using a Principal Component Analysis (PCA).

14.   (Currently amended) The machine-readable medium of claim 13~~1~~, further providing

instructions, which if executed by the processor, causes the processor to perform an operation

comprising:

approximating a generic shape as a linear combination of shape basis vectors based on the

processed stereo data using PCA.

15.   (Original) The machine-readable medium of claim 11, further providing instructions,

which if executed by the processor, causes the processor to perform an operation comprising:

tracking of a monocular image sequence of facial deformations using the built 3D model.

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